

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU03/01078

<b>A. CLASSIFICATION OF SUBJECT MATTER</b>												
Int. Cl. <sup>7</sup> : A01K 67/00, C12N 15/09, C12N 15/63, A61K 38/19, A61K 48/00, A61K 39/395, A61P 29/00												
According to International Patent Classification (IPC) or to both national classification and IPC												
<b>B. FIELDS SEARCHED</b>												
Minimum documentation searched (classification system followed by classification symbols)												
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched												
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Derwent Wpat and Medline keywords: granulocyte colony-stimulating factor, g-csf, g-csf(r), granulocyte colony-stimulating factor()receptor, inflamm?, transgen?, mutat?, mutant, mutagenesis, expression, antisense, rybozyme, antibod? and like terms.												
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>												
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.										
X	US 5,420,109 A (Suto Mark J et al.) 30 May 1995 See whole document.	1-62										
X	US 5,639,455 A (Shimomura Toshiro et al.) 17 June 1997 See whole document.	1-62										
P,X	US 2002/0141994 A (Devalaraja Madhav N et al.) 3 October 2002 Se whole document.	1-62										
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C <input checked="" type="checkbox"/> See patent family annex												
<p>* Special categories of cited documents:</p> <table border="0"> <tr> <td>"A" document defining the general state of the art which is not considered to be of particular relevance</td> <td>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</td> </tr> <tr> <td>"E" earlier application or patent but published on or after the international filing date</td> <td>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</td> </tr> <tr> <td>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</td> <td>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</td> </tr> <tr> <td>"O" document referring to an oral disclosure, use, exhibition or other means</td> <td>"&amp;" document member of the same patent family</td> </tr> <tr> <td>"P" document published prior to the international filing date but later than the priority date claimed</td> <td></td> </tr> </table>			"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention	"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art	"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family	"P" document published prior to the international filing date but later than the priority date claimed	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention											
"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone											
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art											
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family											
"P" document published prior to the international filing date but later than the priority date claimed												
Date of the actual completion of the international search 10 November 2003		Date of mailing of the international search report 20 NOV 2003										
Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustalia.gov.au Facsimile No. (02) 6285 3929		Authorized officer  ARATI SARDANA Telephone No : (02) 6283 2627										

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PCT/AU03/01078

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Ghivizzani Steven C. et al. "Gene therapy approaches for treating rheumatoid arthritis" <i>Clinical Orthopaedics and Related Research</i> , (October 2000), (379 Suppl) pg. S288-99 Ref: 50. See whole document.	1-62
X	Saggio I. et al. "Adenovirus-mediated gene transfer of a human Il-6 antagonist" <i>Gene Therapy</i> , Vol. 4, No. 8, (August 1997), pg. 839-845. See whole document.	1-62
Y	Campbell Ian K. et al. "The colony-stimulating factors and collagen-induced arthritis: exacerbation of disease by M-CSF and G-CSF and requirement for endogenous M-CSF" <i>Journal of Leukocyte Biology</i> , Vol. 68, No. 1, (July 2000), pg. 144-50.	1-62
X	Roessler Blake J. et al. "Inhibition of Interleukin-1-Induced Effects in Synoviocytes Transduced with the Human IL-1 Receptor Antagonist cDNA Using an Adenoviral Vector" <i>HUMAN GENE THERAPY</i> , Vol. 6, No. 3, (March 1995), pg. 307-16. See whole document.	1-62
X	Bernard L. A. et al. "Pimecrolimus 1% cream (Elidel) for atopic dermatitis" <i>Skin Therapy Letter</i> , Vol. 7, No. 4, (April 2002), pg. 1-3. See whole document.	1-62
X	Kawamura Hiroki. et al. " Expansion of Extrathymic T cells as well as Granulocytes in the liver and other organs of Granulocyte-colony Stimulating Factor Transgenic Mice: Why They Lost the Ability of Hybrid Resistance" <i>The Journal of Immunology</i> , Vol. 162, No. 10, (15 May 1999), pg. 5957-64 See whole document.	50-60
X	Hermans M. H. et al. "Sustained Receptor Activation and Hyperproliferation in Response to Granulocyte Colony-stimulating Factor (G-CSF) in Mice with a Severe Congenital Neutropenia/Acute Myeloid Leukemia-derived Mutation in the G-CSF Receptor Gene" <i>Journal of Experimental Medicine</i> , Vol. 189, No. 4, (15 February 1999), pg. 683-92 See whole document.	50-60

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/AU03/01078

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report				Patent Family Member			
US	5420109	AU	11741/95	AU	46575/97	CA	2153584
		EP	0679092	FI	953378	JP	10259196
		NO	952744	NZ	276906	US	5741774
		US	5888969	US	6245738	WO	9513086
		WO	9813060				
US	5639455	EP	0617126	JP	6237772		
US	20020141994	NONE					
END OF ANNEX							